

INTERNATIONAL SEARCH REPORT

International Application No
PCT/EP2004/053237

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 G06F3/06 H04L29/06

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC 7 H04L

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

| Category * | Citation of document, with indication, where appropriate, of the relevant passages | Relevant to claim No. |
|------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|
| X | EP 1 276 034 A (HITACHI, LTD) 15 January 2003 (2003-01-15) abstract paragraph '0001! - paragraph '0016! paragraph '0019! paragraph '0050! - paragraph '0052! | 1-4, 9-13, 19, 21 |
| A | US 2003/189936 A1 (TERRELL WILLIAM C ET AL) 9 October 2003 (2003-10-09) paragraph '0008! paragraph '0060! - paragraph '0062! paragraph '0097! - paragraph '0099! table 3 ----- -/-- | 1-21 |

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

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Date of the actual completion of the international search

25 February 2005

Date of mailing of the international search report

04/03/2005

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
Fax: (+31-70) 340-3016

Authorized officer

Kappatou, E

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| C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT | | |
|------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|
| Category * | Citation of document, with indication, where appropriate, of the relevant passages | Relevant to claim No. |
| A | <p>US 6 647 387 B1 (MCKEAN BRIAN D ET AL) 11 November 2003 (2003-11-11) abstract column 1, line 63 - column 2, line 9 column 4, line 43 - column 7, line 52 -----</p> | 1-21 |

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Information on patent family members

International Application No

PCT/EP2004/053237

| Patent document cited in search report | | Publication date | Patent family member(s) | Publication date |
|-------------------------------------------|----|---------------------|----------------------------|---------------------|
| EP 1276034 | A | 15-01-2003 | JP 2003030053 A | 31-01-2003 |
| | | | EP 1276034 A2 | 15-01-2003 |
| | | | US 2003014600 A1 | 16-01-2003 |
| | | | US 2005005064 A1 | 06-01-2005 |
| | | | US 2005010735 A1 | 13-01-2005 |
| US 2003189936 | A1 | 09-10-2003 | US 2003210686 A1 | 13-11-2003 |
| | | | US 2003189930 A1 | 09-10-2003 |
| | | | US 2003191857 A1 | 09-10-2003 |
| US 6647387 | B1 | 11-11-2003 | NONE | |